

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 2004/000191

A. CLASSIFICATION OF SUBJECT MATTER

A63B 57/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A63B57/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Epodoc, wpi, paj

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4925190 A (Learned) 15 May 1990 (15.05.1990) <i>fig. 5a-5d; column 2, lines 45-66; column 4, line 55 - column 6, line 9.</i>	1,2,7,11-15
A	US 6223829 B1 (Wiens) 1 May 2001 (01.05.2001) <i>fig. 5 - 14; column 5, line 1 - column 6, line 9.</i>	1,2,3,7,11-15
A	WO 1996/022131 A1 (Mitch International Ltd.A.S.) 25 July 1996 (25.07.1996) <i>fig. 1 - 7; page 3, lines 18 - page 4, line 4.</i>	1,4,7,12-15

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
26 July 2004 (26.07.2004)Date of mailing of the international search report
1 September 2004 (01.09.2004)Name and mailing address of the ISA/AT
Austrian Patent Office
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/0032505 A1 (Christensen) 13 February 2003 (13.02.2003) <i>fig. 1 - 3, 9 and 10; column 4, lines 1 - 20.</i> ----	1,3,7,11-15

INTERNATIONAL SEARCH REPORT
Information on patent family members

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PCT/IB 2004/000191

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
US	A	20030032 505		none			
US	A	4925190	1990-05-15	none			
US	B	6223829	2001-05-01	CA	A	2255237	1999-06-08
				US	B	6502646	2003-01-07
				US	A	2002007955	2002-01-24
WO	A	19960221 31		none			